WHAT IS CLAIMED IS:

- 1. A composition comprising an isolated DNA molecule comprising a nucleotide sequence encoding the amino acid sequences shown in SEQ ID NO:1, where Xaa is isoleucine or threonine, and a carrier capable of introducing the isolated DNA molecule into a mammalian cell, wherein said nucleotide sequence consists of the sequence of a fragment of human genomic DNA.
- 2. A method for treating IFN- γ and/or killer cellsusceptive diseases using gene therapy, comprising administering the composition according to claim 1 to a subject in need thereof.
- and α 3. A method for treating tumors using gene therapy, comprising the steps of:

transforming tumor cells obtained from a subject in need thereof with the composition according to claim 1;

proliferating the transformed tumor cells ex vivo; and transplanting the proliferated transformed tumor cells into the subject in need thereof.

- 4. The composition according to claim 1, wherein the nucleotide sequence comprises an exon having the sequence shown in SEQ ID NO:3, 4, 5, 6, or 7.
- 5. The composition according to claim 1, wherein the nucleotide sequence comprises an intron having the sequence shown in SEQ ID NO:8, 9, 10, 11, or 12.
- 6. The composition according to claim 1, wherein the nucleotide sequence is the sequence shown in SEQ ID NO:13, 14, or 15.

7. The composition according to claim 1, wherein the carrier is a virus or liposome.

- 8. A method for treating IFN- γ and/or killer cell-susceptive diseases using gene therapy, comprising administering the composition according to claim 7 to a subject in need thereof.
- 9. A method for treating tumors using gene therapy, comprising the steps of:

transforming tumor cells obtained from a subject in need thereof with the composition according to claim 7;

proliferating the transformed tumor cells ex vivo; and transplanting the proliferated transformed tumor cells into the subject in need thereof.

- 10. The composition according to claim 1, wherein the isolated DNA molecule is linked with a heterologous nucleotide sequence.
- 11. A method for treating IFN-y and/or killer cell-susceptive diseases using gene therapy, comprising administering the composition according to claim 10 to a subject in need thereof.
- 12. A method for treating tumors using gene therapy, comprising administering the steps of:

transforming tumor cells obtained from a subject in need thereof with the composition according to claim 10;

proliferating the transformed tumor cells ex vivo; and transplanting the proliferated transformed tumor cells into the subject in need thereof.

- 13. The composition according to claim 6, wherein the heterologous nucleotide sequence is of a virus vector.
- 14. A method for treating IFN- γ and/or killer cellsusceptive diseases using gene therapy, comprising administering the composition according to claim 13 to a subject in need thereof.
- 15. A method for treating tumors using gene therapy, comprising the steps of:

transforming tumor cells obtained from a subject in need thereof with the composition according to claim 13;

proliferating the transformed tumor cells ex vivo; and transplanting the proliferated transformed tumor cells into the subject in need thereof.

- 16. A method for treating IFN- γ and/or killer cellsusceptive diseases using gene therapy, comprising administering to a subject in need thereof an isolated DNA molecule comprising a nucleotide sequence encoding the amino acid sequence shown in SEQ ID NO:1, where Xaa is isoleucine or threonine, wherein the nucleotide sequence consists of the sequence of a fragment of human genomic DNA.
- 17. A method for treating tumors using gene therapy, comprising the steps of:

transforming tumor cells obtained from a subject in need thereof with an isolated DNA molecule comprising a nucleotide sequence encoding the amino acid sequence shown in SEQ ID NO:1, where Xaa is isoleucine or threonine, wherein the nucleotide sequence consists of the sequence of a fragment of human genomic DNA;

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proliferating the transformed tumor cells ex vivo; and transplanting the proliferated transformed tumor cells into the subject in need thereof.

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